

## RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 09/900,963D  
Source: FW16  
Date Processed by STIC: 1/22/07

# ***ENTERED***



IFW16

## RAW SEQUENCE LISTING

DATE: 01/22/2007

PATENT APPLICATION: US/09/900,963D

TIME: 13:39:27

Input Set : A:\Sequence Listing.txt

Output Set: N:\CRF4\01222007\I900963D.raw

4 <110> APPLICANT: GUERIN-MARCHAND, CLAUDINE  
 5 DRUILHE, PIERRE  
 7 <120> TITLE OF INVENTION: DNA SEQUENCES ENCODING PEPTIDE SEQUENCES SPECIFIC FOR  
 8 THE HEPATIC STAGES OF P. FALCIPARUM BEARING EPITOPES  
 9 CAPABLE OF STIMULATING THE T LYMPHOCYTES (as amended)  
 11 <130> FILE REFERENCE: 010830-118  
 13 <140> CURRENT APPLICATION NUMBER: 09/900,963D  
 14 <141> CURRENT FILING DATE: 2001-07-10  
 16 <150> PRIOR APPLICATION NUMBER: 08/098,327  
 17 <151> PRIOR FILING DATE: 1993-11-24  
 19 <150> PRIOR APPLICATION NUMBER: PCT/FR92/00104  
 20 <151> PRIOR FILING DATE: 1992-02-05  
 22 <150> PRIOR APPLICATION NUMBER: FR 91 01286  
 23 <151> PRIOR FILING DATE: 1991-02-05  
 25 <160> NUMBER OF SEQ ID NOS: 47  
 27 <170> SOFTWARE: PatentIn Ver. 3.3  
 29 <210> SEQ ID NO: 1  
 30 <211> LENGTH: 17  
 31 <212> TYPE: PRT  
 32 <213> ORGANISM: Artificial Sequence  
 34 <220> FEATURE:  
 35 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic Formula  
 36 Sequence  
 38 <220> FEATURE:  
 39 <221> NAME/KEY: MOD\_RES  
 40 <222> LOCATION: (8)  
 41 <223> OTHER INFORMATION: Glu or Gly  
 43 <400> SEQUENCE: 1  
 W--> 44 Leu Ala Lys Glu Lys Leu Gln Xaa Gln Gln Ser Asp Leu Glu Gln Glu  
 45 1 5 10 15  
 47 Arg  
 50 <210> SEQ ID NO: 2  
 51 <211> LENGTH: 17  
 52 <212> TYPE: PRT  
 53 <213> ORGANISM: Artificial Sequence  
 55 <220> FEATURE:  
 56 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic Formula  
 57 Sequence  
 59 <220> FEATURE: <220  
 60 <221> NAME/KEY: MOD\_RES  
 61 <222> LOCATION: (1)  
 62 <223> OTHER INFORMATION: Ser or Arg  
 64 <220> FEATURE:

(Pg. 6)

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65 <221> NAME/KEY: MOD_RES
66 <222> LOCATION: (6)
67 <223> OTHER INFORMATION: Glu or Asp
69 <220> FEATURE:
70 <221> NAME/KEY: MOD_RES
71 <222> LOCATION: (8)
72 <223> OTHER INFORMATION: Arg or Leu
74 <220> FEATURE:
75 <221> NAME/KEY: MOD_RES
76 <222> LOCATION: (15)
77 <223> OTHER INFORMATION: Glu or Gly
79 <400> SEQUENCE: 2
W--> 80 Xaa Asp Leu Glu Gln Xaa Arg Xaa Ala Lys Glu Lys Leu Gln Xaa Gln
      81   1             5             10             15
      83 Gln
86 <210> SEQ ID NO: 3
87 <211> LENGTH: 17
88 <212> TYPE: PRT
89 <213> ORGANISM: Artificial Sequence
91 <220> FEATURE:
92 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic Formula
93   Sequence
95 <220> FEATURE:
96 <221> NAME/KEY: MOD_RES
97 <222> LOCATION: (2)
98 <223> OTHER INFORMATION: Ser or Arg
100 <220> FEATURE:
101 <221> NAME/KEY: MOD_RES
102 <222> LOCATION: (7)
103 <223> OTHER INFORMATION: Glu or Asp
105 <220> FEATURE:
106 <221> NAME/KEY: MOD_RES
107 <222> LOCATION: (9)
108 <223> OTHER INFORMATION: Arg or Leu
110 <220> FEATURE:
111 <221> NAME/KEY: MOD_RES
112 <222> LOCATION: (16)
113 <223> OTHER INFORMATION: Glu or Gly
115 <400> SEQUENCE: 3
W--> 116 Gln Xaa Asp Leu Glu Gln Xaa Arg Xaa Ala Lys Glu Lys Leu Gln Xaa
      117   1             5             10             15
      119 Gln
122 <210> SEQ ID NO: 4
123 <211> LENGTH: 17
124 <212> TYPE: PRT
125 <213> ORGANISM: Artificial Sequence
127 <220> FEATURE:
128 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic Formula
129   Sequence

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131 <220> FEATURE:
132 <221> NAME/KEY: MOD_RES
133 <222> LOCATION: (3)
134 <223> OTHER INFORMATION: Ser or Arg
136 <220> FEATURE:
137 <221> NAME/KEY: MOD_RES
138 <222> LOCATION: (8)
139 <223> OTHER INFORMATION: Glu or Asp
141 <220> FEATURE:
142 <221> NAME/KEY: MOD_RES
143 <222> LOCATION: (10)
144 <223> OTHER INFORMATION: Arg or Leu
146 <220> FEATURE:
147 <221> NAME/KEY: MOD_RES
148 <222> LOCATION: (17)
149 <223> OTHER INFORMATION: Glu or Gly
151 <400> SEQUENCE: 4
W--> 152 Gln Gln Xaa Asp Leu Glu Gln Xaa Arg Xaa Ala Lys Glu Lys Leu Gln
153   1           5           10           15
W--> 155 Xaa
158 <210> SEQ ID NO: 5
159 <211> LENGTH: 17
160 <212> TYPE: PRT
161 <213> ORGANISM: Artificial Sequence
163 <220> FEATURE:
164 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic Formula
165   Sequence
167 <220> FEATURE:
168 <221> NAME/KEY: MOD_RES
169 <222> LOCATION: (1)
170 <223> OTHER INFORMATION: Glu or Gly
172 <220> FEATURE:
173 <221> NAME/KEY: MOD_RES
174 <222> LOCATION: (4)
175 <223> OTHER INFORMATION: Ser or Arg
177 <220> FEATURE:
178 <221> NAME/KEY: MOD_RES
179 <222> LOCATION: (9)
180 <223> OTHER INFORMATION: Glu or Asp
182 <220> FEATURE:
183 <221> NAME/KEY: MOD_RES
184 <222> LOCATION: (11)
185 <223> OTHER INFORMATION: Arg or Leu
187 <400> SEQUENCE: 5
W--> 188 Xaa Gln Gln Xaa Asp Leu Glu Gln Xaa Arg Xaa Ala Lys Glu Lys Leu
189   1           5           10           15
191 Gln
194 <210> SEQ ID NO: 6
195 <211> LENGTH: 17

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196 <212> TYPE: PRT
197 <213> ORGANISM: Artificial Sequence
199 <220> FEATURE:
200 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic Formula
201     Sequence
203 <220> FEATURE:
204 <221> NAME/KEY: MOD_RES
205 <222> LOCATION: (2)
206 <223> OTHER INFORMATION: Glu or Gly
208 <220> FEATURE:
209 <221> NAME/KEY: MOD_RES
210 <222> LOCATION: (5)
211 <223> OTHER INFORMATION: Ser or Arg
213 <220> FEATURE:
214 <221> NAME/KEY: MOD_RES
215 <222> LOCATION: (10)
216 <223> OTHER INFORMATION: Glu or Asp
218 <220> FEATURE:
219 <221> NAME/KEY: MOD_RES
220 <222> LOCATION: (12)
221 <223> OTHER INFORMATION: Arg or Leu
223 <400> SEQUENCE: 6
W--> 224 Gln Xaa Gln Gln Xaa Asp Leu Glu Gln Xaa Arg Xaa Ala Lys Glu Lys
      225   1             5             10             15
227 Leu
230 <210> SEQ ID NO: 7
231 <211> LENGTH: 17
232 <212> TYPE: PRT
233 <213> ORGANISM: Artificial Sequence
235 <220> FEATURE:
236 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic Formula
237     Sequence
239 <220> FEATURE:
240 <221> NAME/KEY: MOD_RES
241 <222> LOCATION: (3)
242 <223> OTHER INFORMATION: Glu or Gly
244 <220> FEATURE:
245 <221> NAME/KEY: MOD_RES
246 <222> LOCATION: (6)
247 <223> OTHER INFORMATION: Ser or Arg
249 <220> FEATURE:
250 <221> NAME/KEY: MOD_RES
251 <222> LOCATION: (11)
252 <223> OTHER INFORMATION: Glu or Asp
254 <220> FEATURE:
255 <221> NAME/KEY: MOD_RES
256 <222> LOCATION: (13)
257 <223> OTHER INFORMATION: Arg or Leu
259 <400> SEQUENCE: 7

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Input Set : A:\Sequence Listing.txt

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W--&gt; 260 Leu Gln Xaa Gln Gln Xaa Asp Leu Glu Gln Xaa Arg Xaa Ala Lys Glu

261 1 5 10 15

263 Lys

266 &lt;210&gt; SEQ ID NO: 8

267 &lt;211&gt; LENGTH: 17

268 &lt;212&gt; TYPE: PRT

269 &lt;213&gt; ORGANISM: Artificial Sequence

271 &lt;220&gt; FEATURE:

272 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic Formula  
273 Sequence

275 &lt;220&gt; FEATURE:

276 &lt;221&gt; NAME/KEY: MOD\_RES

277 &lt;222&gt; LOCATION: (4)

278 &lt;223&gt; OTHER INFORMATION: Glu or Gly

280 &lt;220&gt; FEATURE:

281 &lt;221&gt; NAME/KEY: MOD\_RES

282 &lt;222&gt; LOCATION: (7)

283 &lt;223&gt; OTHER INFORMATION: Ser or Arg

285 &lt;220&gt; FEATURE:

286 &lt;221&gt; NAME/KEY: MOD\_RES

287 &lt;222&gt; LOCATION: (12)

288 &lt;223&gt; OTHER INFORMATION: Glu or Asp

290 &lt;220&gt; FEATURE:

291 &lt;221&gt; NAME/KEY: MOD\_RES

292 &lt;222&gt; LOCATION: (14)

293 &lt;223&gt; OTHER INFORMATION: Arg or Leu

295 &lt;400&gt; SEQUENCE: 8

W--&gt; 296 Lys Leu Gln Xaa Gln Gln Xaa Asp Leu Glu Gln Xaa Arg Xaa Ala Lys

297 1 5 10 15

299 Glu

302 &lt;210&gt; SEQ ID NO: 9

303 &lt;211&gt; LENGTH: 17

304 &lt;212&gt; TYPE: PRT

305 &lt;213&gt; ORGANISM: Artificial Sequence

307 &lt;220&gt; FEATURE:

308 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic Formula  
309 Sequence

311 &lt;220&gt; FEATURE:

312 &lt;221&gt; NAME/KEY: MOD\_RES

313 &lt;222&gt; LOCATION: (5)

314 &lt;223&gt; OTHER INFORMATION: Glu or Gly

316 &lt;220&gt; FEATURE:

317 &lt;221&gt; NAME/KEY: MOD\_RES

318 &lt;222&gt; LOCATION: (8)

319 &lt;223&gt; OTHER INFORMATION: Ser or Arg

321 &lt;220&gt; FEATURE:

322 &lt;221&gt; NAME/KEY: MOD\_RES

323 &lt;222&gt; LOCATION: (13)

324 &lt;223&gt; OTHER INFORMATION: Glu or Asp

RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/09/900,963D

DATE: 01/22/2007  
TIME: 13:39:28

Input Set : A:\Sequence Listing.txt  
Output Set: N:\CRF4\01222007\I900963D.raw

**Please Note:**

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; Xaa Pos. 8  
Seq#:2; Xaa Pos. 1, 5, 8, 15  
Seq#:3; Xaa Pos. 2, 7, 9, 16  
Seq#:4; Xaa Pos. 3, 8, 10, 17  
Seq#:5; Xaa Pos. 1, 4, 9, 11  
Seq#:6; Xaa Pos. 2, 5, 10, 12  
Seq#:7; Xaa Pos. 3, 6, 11, 13  
Seq#:8; Xaa Pos. 4, 7, 12, 14  
Seq#:9; Xaa Pos. 5, 8, 13, 15  
Seq#:10; Xaa Pos. 6, 9, 14, 16  
Seq#:11; Xaa Pos. 7, 10, 15, 17  
Seq#:12; Xaa Pos. 1, 8, 11, 16  
Seq#:13; Xaa Pos. 2, 9, 12, 17  
Seq#:14; Xaa Pos. 1, 3, 10, 13  
Seq#:15; Xaa Pos. 2, 4, 11, 14  
Seq#:16; Xaa Pos. 3, 5, 12, 15  
Seq#:17; Xaa Pos. 4, 6, 13, 16  
Seq#:18; Xaa Pos. 5, 7, 14, 17

## VERIFICATION SUMMARY

PATENT APPLICATION: US/09/900,963D

DATE: 01/22/2007

TIME: 13:39:28

Input Set : A:\Sequence Listing.txt

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L:44 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0  
L:80 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0  
L:116 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0  
L:152 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0  
L:155 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:16  
L:188 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:0  
L:224 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:0  
L:260 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:0  
L:296 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:0  
L:332 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:0  
L:368 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:0  
L:404 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:0  
L:407 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:16  
L:440 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:0  
L:476 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:0  
L:479 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:16  
L:512 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:0  
L:548 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:0  
L:584 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:0  
L:620 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:0  
L:656 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:0  
L:659 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:16